UST DECOMMISSIONING ASSESSMENT

5/23 rev

FAA Tank Number: UST 53A (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

UST Location: Former FAA Living Quarters Area, Building 101.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Locally available sand and gravel.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: Surface cover at the tank site was 12 inches of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Active water lines are near but were not encountered at this site. Overhead power lines exist at Living Quarters area but were not at this tank site.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: heavy rain, wind, 40°F

FAA Tank Number: UST 53A (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 800 gallons

Year Installed: unknown **Length:** 10 feet **Diameter:** 46 inches

Wall Construction Type:	XX	**Single Wall**		**Double Wall**				
Construction Material:	XX	**Steel**		**Fiberglass**				
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**
Other:								

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: four 2-inch bungs on the top surface of the tank—bungs were used for vent, fill, feed, and return lines

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: Following (2) and (3) of Section (X)-160 of MIC Underground Storage Tank Regulations, the tank was removed on September 28, 1999, and moved to a designated decontamination area near the former school building foundation. On September 29, 1999, the tank was cut into manageable pieces with an acetylene/oxygen torch and cleaned. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: : Approximately 50 gallons of off-spec. diesel was removed and shipped to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108 (ANN32a).

Tank Inspection Notes: Tank was slightly rusted with no visible signs of cracks, leaks, or holes.

Piping Notes: Not applicable.

FAA Tank Number: UST 53A (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with shovels and a backhoe on September 28, 1999. The final dimensions of the excavation area were approximately 8 feet wide, 16 feet long, and 4.5 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. Excavation was lined with 10 mil poly before backfilling with imported fill from Ketchikan Quarry and screened clean soils.

Soil Conditions: Topsoil consisted of sand and gravel. Clay was encountered at approximately 4 feet bgs.

Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel sheen was present on the surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: There was no apparent staining of soils above the tank

Soils Excavated as Required for Tank Removal: Approximately 5 cubic yards of soil were excavated during tank removal operations. 1.5 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation and disposal.

Soils After Tank Removal: Approximately 13 additional cubic yards of fuel-contaminated soil was excavated following tank removal operations. The decision to excavate additional soil was based on field screening results.

Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and five confirmation soil samples (including one quality control duplicate sample) (ANN99SS001Q01 through ANN99SS001Q05) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil sample (ANN99TS001Q01) was collected for total lead.

Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 101 for heating oil storage.

Stockpiles: Petroleum- contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation and disposal. Analytical data for containered soil is attached. Fuel affected soil was sent to TPS Technologies, Inc., 2800 – 104th

Street Court, South, Lakewood, WA 98444 (ANN37). A soil recycling certificate is attached. Lead affected soil was sent to Chem Waste Management
of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33)

Groundwater: Groundwater was encountered during tank removal operations and had been impacted by leaking/spilled fuel. Groundwater samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 53A (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on September 29, 1999, at 0900 hours. A copy of the release notification is attached.

Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 13 cubic yards of potentially contaminated soil was removed and containerized for offsite transportation and disposal.

Release Investigation Report: A release investigation is scheduled for 2000 field season since MIC cleanup levels were not reached.

Corrective Action: Pending the results of a release investigation.

Hazard Ranking Summary and Score: N/A

Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)

	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. Surrogate recovery for samples ANN99SS001Q01, ANN99SS001Q02, ANN99SS001Q04, and ANN99SS001Q05 were outside of control limits because of matrix interference.

11. The field duplicate relative percent difference for DRO analysis was 81.3%. The field duplicate relative percent difference for RRO analysis could not be calculated. The field duplicate relative percent difference for napthalene (PAHs) could not be calculated.

Date: _____

Reviewer: _____

UST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: UST 53B (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

UST Location: Former FAA Living Quarters Area, Building 102.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ^{o}**F** **Average January Temp.:** 35 ^{o}**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: Surface cover at the tank site was 12 inches of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported

Location of Underground Utilities at Site Overhead power lines exist at the Living Quarters Area but were not encountered at this site. A 1-1/4-inch copper water line was damaged during tank removal operations. Field crews controlled the flow of water from the line by pinching the end shut and contacted the Metlakatla Water Company. A crew was dispatched to the site to repair the damaged water line.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: heavy rain, wind, 40°F

FAA Tank Number: UST 53B (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 1000 gallons

Year Installed: 9/49 **Length:** 6 feet **Diameter:** 5 feet 4 inches

Wall Construction Type:	XX	**Single Wall**		**Double Wall**					
Construction Material:	XX	**Steel**		**Fiberglass**					
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**	
Other:									

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: Four 2-inch bungs on the top surface of the tank. Bungs were used for vent, fill, feed, and return lines

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: Following (2) and (3) of Section (X)-160 of MIC Underground Storage Tank Regulations, the tank was removed on September 28, 1999, and moved to a designated decontamination area near the former school building foundation. On September 29, 1999, the tank was cut into manageable pieces with an acetylene/oxygen torch and cleaned. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: : Approximately 15 gallons of off-spec diesel was removed and sent to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108 (ANN32a).

Tank Inspection Notes: Tank was slightly rusted with no visible signs of cracks, leaks, or holes.

Piping Notes: Not applicable.

FAA Tank Number: UST 53B (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with shovels and a backhoe on September 28, 1999. The final dimensions of the excavation area were approximately 7 feet wide, 15 feet long, and 6 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The excavation was lined with 10 mil poly before backfilling with imported fill from Ketchikan Quarry and screened clean soils.

Soil Conditions: Topsoil consisted of sand and gravel. Clay was encountered at an approximate depth of 5 feet bgs.

Groundwater Conditions: Groundwater was encountered at an approximate depth of 5.5 feet bgs. A heavy fuel product was present on the surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.

Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards of soil was excavated during tank removal operations. . 1.5 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation and disposal.

Soils After Tank Removal: Approximately 12 additional cubic yards of fuel-contaminated soil were excavated following tank removal operations. The decision to excavate additional soil was based on field screening results.

Soils at Limit of Excavation: Four soil samples were collected for field screening with the OVM, and three confirmation soil samples (ANN99SS002Q01 through ANN99SS002Q03) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil sample (ANN99TS002Q01) was collected for total lead analysis. Remaining soils are below MIC clean up criteria.

Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 102 for heating oil storage.

Stockpiles: Petroleum contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation, treatment, and disposal. Containered soil was sampled before shipping off site; analytical results are attached. Fuel affected soil

was sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN38). A soil recycling certificate is attached. Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33)

Groundwater: Groundwater was encountered approximately 5.5 feet bgs. Floating product was observed on the surface. Groundwater samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 53B (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tanks in the living quarters area

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on September 29, 1999, at 0900 hours. A copy of the release notification is attached.

Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 15—20 cubic yards of potentially contaminated soil was removed and containerized for offsite transportation and disposal.

Release Investigation Report: MIC soil cleanup levels were reached. However, a release investigation is required due to the observed presence of lfoating product on the groundwater. The lack of soil contamination could mean that the peroleum observed may have come from a source other than this heating oil tank.

Corrective Action: Pending the results of a release investigation.

Hazard Ranking Summary and Score: N/A

Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. Surrogate recovery for sample ANN99SS002Q02 was outside of control limits.

Date: _____

Reviewer: _____

UST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: UST 53C (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

UST Location: Former FAA Living Quarters Area, Building 103.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: Surface cover at the tank site was 12 inches of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: A 1-1/4-inch copper water line was damaged during tank removal operations. Field crews controlled the flow of water from the line by pinching the end shut and contacted the Metlakatla Water Company. A crew was dispatched to repair the damaged water line.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: sunny, 50°F

FAA Tank Number: UST 53C (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 1000 gallons

Year Installed: 10/49 **Length:** 10 feet **Diameter:** 5 feet

Wall Construction Type:	XX	**Single Wall**		**Double Wall**					
Construction Material:	XX	**Steel**		**Fiberglass**					
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**	
Other:									

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: Four 2-inch bungs on the top surface of the tank. Bungs were used for vent, fill, feed, and return lines

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: Following (2) and (3) of Section (X)-160 of MIC Underground Storage Tank Regulations, the tank was removed on September 29, 1999, and moved to a designated decontamination area near the former school building foundation and later cut into manageable pieces with an acetylene/oxygen torch and cleaned. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: : Approximately 20 gallons of off spec. diesel was removed and sent to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108 (ANN32b)

Tank Inspection Notes: Tank was slightly rusted with no visible signs of cracks, leaks, or holes.

Piping Notes: Not applicable.

EXCAVATION

Excavation Notes: The tank was excavated with shovels and a backhoe on September 29, 1999. The final dimensions of the excavation area were approximately 7 feet wide, 15 feet long, and 6 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The bottom of the tank was approximately 6 feet bgs.

Soil Conditions: Topsoil consisted of sand and gravel. Clay was encountered at an approximate depth of 4 feet bgs.

Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel sheen was present on the surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.

Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards of soil was excavated during tank removal operations. 2 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation and disposal on Spetember 27, 1999. Analytical results revealed the presence of lead in the remaining soils at concenrations above the MIC cleanup level. An additional 6 cubic yards of lead paint chip contaminated soils were removed on October 6, 1999,

Soils After Tank Removal: Approximately 7 additional cubic yards of fuel contaminated soil was excavated following tank removal operations. The decision to excavate additional soil was based on field screening results.

Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and five confirmation soil samples (including one quality control duplicate) (ANN99SS003Q01 through ANN99SS003Q05) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil sample (ANN99TS003Q01) was collected for total lead analysis. Remaining soils are above MIC clean up criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 103 for heating oil storage.

Stockpiles: Petroleum-contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation and disposal. Containerized soil was sampled before shipment; analytical results are attached. Fuel affected soil was sent to

TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN39). A soil recycling certificate is attached. Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33)

Groundwater: Groundwater was encountered during tank removal operations and had been impacted by leaking/spilled fuel. Groundwater samples will be collected during the schedulded release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 53C (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 1, 1999, at 1530 hours. A copy of the release notification is attached.

Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 7 cubic yards of fuel affected soil was removed and containerized for offsite transportation and disposal.

Release Investigation Report: MIC cleanup levels were not met. A release investigation is scheduled for the summer of 2000.

Corrective Action: Pending the results of a release investigation.

Hazard Ranking Summary and Score: N/A

Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. Surrogate recovery during DRO analysis in the method blank (33%) was outside of control limits (50-130%).
Surrogate recovery for sample ANN99SS003Q03 was not quantified because of the required dilution for DRO analysis.

Date: _____

Reviewer: _____

AST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: AST 53D (SOW C-3 reference)
ADEC Tank Number: Non Regulated AST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Metlakatla Indian Community
P.O. Box 8
Metlakatla, Alaska 99926

AST Location: Former FAA Living Quarters Area, Building 103.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: AST 53D was on a gravel pad.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Water service lines and overhead power lines are present in the Living Quarters Area but none were encountered at this tank site.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: heavy rain, wind, 40°F

FAA Tank Number: UST 53D (SOW C-3 reference)
ADEC Tank Number: Non Regulated AST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 1,650 gallons

Year Installed: unknown **Length:** 10 feet **Diameter:** 5 feet

Wall Construction Type:	XX	**Single Wall**		**Double Wall**					
Construction Material:	XX	**Steel**		**Fiberglass**					
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**	
Other:									

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: Four 2-inch bungs on the top surface of the tank used for vent, fill, feed, and return lines; one 2-inch bung with a 1-inch gate valve on the east bulkhead of the tank

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: The tank was removed on September 28, 1999, and moved to a designated decontamination area near the former school building foundation. On September 29, 1999, the tank was cut into manageable pieces with an acetylene/oxygen torch and cleaned following (3) of Section (X)-160 of MIC Underground Storage Tank Regulations. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: : Approximately 20 gallons of off-spec. diesel was removed and sent to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108 (ANN32b).

Tank Inspection Notes: Tank had no visible signs of cracks, leaks, or holes.

Piping Notes: Not applicable.

FAA Tank Number: UST 53D (SOW C-3 reference)
ADEC Tank Number: Non Regulated AST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

EXCAVATION

Excavation Notes: . A backhoe was used to remove approximately 2 cubic yards of soil from beneath the former location of the AST. The final dimensions of the excavation area were approximately 7 feet long, 5 feet wide , and 2 feet deep. The soil was excavated because it was contaminated with chips of lead paint from the adjacent house.

Soil Conditions: The topsoil consisted of sand and gravel.

Groundwater Conditions: N/A

Thermal Conditions: N/A

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: There was no apparent staining of soils beneath the tank.

Soils Excavated as Required for Tank Removal: Not applicable.

Soils After Tank Removal: Approximately 2 cubic yards of soil was excavated beneath the tank because the soil was contaminated with chips of lead paint from the adjacent house.

Soils at Limit of Excavation: Five soil samples were collected beneath the former location of the tank for field screening with the OVM, and four confirmation soil samples (ANN99SS010Q01 through ANN99SS010Q04) were collected for offsite laboratory analysis as shown in Figure 3. Two soil samples (including one quality control duplicate) (ANN99TS010Q01 and ANN99TS011Q01) were collected for total lead analysis at an approved offsite laboratory. The remaining soils meet the MIC clean up criteria for DRO and lead, however PAH results reveal a slight exceedance of the MIC clean up level for benzo(a)pyrene (0.13 mg/Kg) and benzo(b)fluoranthene (0.12 mg/Kg).

Soils Beneath Fuel Piping and Dispensers: Not applicable.

Stockpiles: . Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33)

Groundwater: Not applicable.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 53D (SOW C-3 reference)
ADEC Tank Number: Non Regulated AST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Analytical results indicate there was probably a minor release at this site.

Release Notification: A release notification was not sent to MIC because field screening results indicated that the site was clean and the slight exceedances of cleanup levels was not observed until PAH results were receive from the lab.

Initial Abatement Actions Tank was removed and 2 cubic yards of soil was removed from beneath the tank.

Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000 because of the slight exceedance of the MIC cleanup levels for benzo(a)pyrene (0.13 mg/Kg) and benzo(b)fluoranthene (0.12 mg/Kg).in the remaining soil.

Corrective Action: Pending the release investigation.

Hazard Ranking Summary and Score: Not applicable.

Corrective Action Plan Summary and Status: .Pending results of the release investigation.

FAA Tank Number: UST 53D (SOW C-3 reference)
ADEC Tank Number: Non Regulated AST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. The surrogate recovery for sample number ANN99SS010Q02 was outside of laboratory control limits or not calculated because of required dilution during DRO analysis procedures. 4-Bromofluorobenzene (GRO analysis) surrogate recovery for samples ANN99SS010Q02, ANN99SS010Q03, and ANN99SS010Q04 were outside of control limits.

11. The field duplicate relative percent difference for sample numbers ANN99TS010Q01 and ANN99TS011Q01 (total lead analysis) was 56.8%.

Date: _____
Reviewer: _____

UST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: UST 53E (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

UST Location: Former FAA Living Quarters Area, Building 104.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: UST 53E was covered with approximately 1-1/2 feet of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Water service lines and overhead power lines are present in the Living Quarters Area but none were encountered at this tank site.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: cloudy, 40°F

FAA Tank Number: UST 53E (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 800 gallons

Year Installed: 10/49 **Length:** 10 feet **Diameter:** 45 inches

Wall Construction Type:	XX	**Single Wall**		**Double Wall**					
Construction Material:	XX	**Steel**		**Fiberglass**					
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**	
Other:									

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: Two 2-inch bungs on the top surface of the tank used for fill and return lines; two 1-inch bungs on the top surface of the tank used for vent and supply lines; one 24-inch bolted manway flange

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: The tank was removed on October 2, 1999, and moved to a designated decontamination area near the former school building foundation and later cut into manageable pieces with an acetylene/oxygen torch and cleaned following (2) and (3) of Section (X)-160 of MIC Underground Storage Tank Regulations. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: : Approximately 50 gallons of off-spec. diesel was removed and shipped to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108 (ANN32a).

Tank Inspection Notes: Seven corrosion holes were discovered on the bottom surface of the tank. Several corrosion holes were reported as being present on the top surface of the tank, but the specific number was not recorded.

Piping Notes: Not applicable.

Water Removal: Approximately 800 gallons of water were removed from this tank. It was treated by Granular Activated Carbon (GAC) filter, sampled, and discharged to the MIC sewer. Analytical results are attached.

FAA Tank Number: UST 53E (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with shovels and a backhoe on October 2, 1999. The final dimensions of the excavation area were approximately 7 feet wide, 15 feet long, and 6 feet below ground surface (bgs). The top of the tank was exposed at the ground surface. The bottom of the tank was approximately 4 feet bgs.

Soil Conditions: Topsoil consisted of sand and gravel. Clay was encountered at an approximate depth of 4 feet bgs.

Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. Floating fuel product was present on the surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.

Soils Excavated as Required for Tank Removal: Ten cubic yards of soil were excavated during tank removal operations. . 2 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation and disposal (ANN33)

Soils After Tank Removal: Approximately 24 additional cubic yards of fuel-contaminated soil was excavated following tank removal operations.
The decision to excavate additional soil was based on field screening results.

Soils at Limit of Excavation: Five soil samples were collected for field screening with the OVM, and four confirmation soil samples (including one quality control duplicate) (ANN99SS004Q01, ANN99SS004Q02, ANN99SS004Q04, and ANN99SS004Q05) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil sample (ANN99TS004Q01) was collected for total lead analysis Remaining soils are above MIC cleanup criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 104 for heating oil storage.

Stockpiles: Petroleum- contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation, treatment, and disposal. Containerized soil was sampled before shipment; analytical results are attached. . Fuel affected soil was sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN44). A soil recycling certificate is attached. Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33)

FAA Tank Number: UST 53E (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Groundwater: Groundwater was encountered approximately 4 feet bgs. Floating product was observed on the surface. Groundwater samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 53E (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 4, 1999, at 1200 hours. A copy of the release notification is attached.

Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 24 cubic yards of potentially contaminated soil was removed and containerized for offsite transportation and disposal.

Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.

Corrective Action: N/A

Hazard Ranking Summary and Score: N/A

Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. 4-Bromofluorobenzene (GRO analysis) surrogate recovery for samples ANN99SS004Q01, ANN99SS004Q02, ANN99SS004Q04, and ANN99SS004Q05 were outside of control limits due to matrix interference. Surrogate recovery during DRO analysis for samples ANN99SS004Q01, ANN99SS004Q04, and ANN99SS004Q05 were outside of control limits because of matrix interference or not calculated because of required dilution. Surrogate recovery during RRO analysis for samples ANN99SS004Q01, ANN99SS004Q02, ANN99SS004Q04, and ANN99SS004Q05 were not calculated because of required dilution.

11. The field duplicate relative percent difference for DRO analysis was 113%.

Date: _____

Reviewer: _____

UST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: UST 53F (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

UST Location: Former FAA Living Quarters Area, Building 105.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: UST 53F was covered with approximately 1-1/2 feet of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Water service lines and overhead power lines are present in the Living Quarters Area. A 1-1/4-inch copper water line was damaged during tank removal operations. Field crews controlled the flow of water from the line by pinching the end shut and contacted the Metlakatla Water Company. A crew was dispatched to the site to repair the damaged water line.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: sunny, 50°F

FAA Tank Number: UST 53F (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 800 gallons

Year Installed: 10/49 **Length:** 10 feet **Diameter:** 45 inches

Wall Construction Type:	XX	**Single Wall**		**Double Wall**					
Construction Material:	XX	**Steel**		**Fiberglass**					
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**	
Other:									

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: Two 2-inch bungs on the top surface of the tank used for fill and return lines; two 1-inch bungs on the top surface of the tank used for vent and feed lines; one 24-inch bolted manway flange on the top surface of the tank

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: The tank was removed on September 29, 1999, and moved to a designated decontamination area near the former school building foundation and later cut into manageable pieces with an acetylene/oxygen torch and cleaned following (2) and (3) of Section (X)-160 of the MIC Underground Storage Tank Regulations. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: Approximately 30 gallons of off-spec. diesel was removed and shipped to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108 (ANN32a)..

Tank Inspection Notes: Six corrosion holes were reported on the bottom of the tank surface.

Piping Notes: Not applicable.

FAA Tank Number: UST 53F (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with shovels and a backhoe on September 29, 1999. The final dimensions of the excavation area were approximately 7 feet wide, 17 feet long, and 5.5 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The bottom of the tank was approximately 5 feet bgs. Backfill of inorganic pit run from the local quarry was used.

Soil Conditions: Topsoil consisted of sands and gravel. Clay was encountered at an approximate depth of 4 feet bgs.

Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel sheen was present on the surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.

Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards of soil were excavated during tank removal operations. 2 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation and disposal (ANN33)

Soils After Tank Removal: Approximately 5 additional cubic yards of potentially fuel contaminated soil were excavated following tank removal operations. The decision to excavate additional soil was based on field screening results.

Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples (ANN99SS005Q01 through ANN99SS005Q04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil sample (ANN99TS005Q01) was collected for total lead analysisRemaining soils are above MIC cleanup criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 105 for heating oil storage.

Stockpiles: Petroleum-contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation, treatment, and disposal (ANN40). Containerized soil was sampled before shipping, analytical results are attached. . Fuel affected soil was sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN44). A soil recycling certificate is attached.

Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33).

Groundwater: Groundwater was encountered during tank removal operations and had been impacted by leaking/spilled fuel product. Groundwater samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 53F (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination created by historical leaks/spills associated with the operation of the underground storage tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 1, 1999, at 1530 hours. A copy of the release notification is attached.

Initial Abatement Actions The soil around the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 5 cubic yards of fuel contaminated soil was removed and containerized for offsite transportation and disposal.

Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.

Corrective Action: Pending the results of a release investigation.

Hazard Ranking Summary and Score: N/A

Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. Surrogate recovery for sample ANN99SS005Q01 was outside of control limits because of matrix interference.

Date: _____

Reviewer: _____

UST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: UST 53G (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

UST Location: Former FAA Living Quarters Area, Building 106.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: UST 53G was covered with approximately 24 inches of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Water service line and overhead power lines are present in the Living Quarters Area but none were encountered at this tank site.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: sunny, 50°F

FAA Tank Number: UST 53G (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 800 gallons

Year Installed: 7/50 **Length:** 10 feet **Diameter:** 40 inches

Wall Construction Type:	XX	**Single Wall**		**Double Wall**					
Construction Material:	XX	**Steel**		**Fiberglass**					
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**	
Other:									

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: four 2-inch bungs on the top surface of the tank—bungs were used for vent, fill, supply, and return lines

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: The tank was removed on September 30, 1999, and moved to a designated decontamination area near the former school building foundation and later cut into manageable pieces with an acetylene/oxygen torch and cleaned following (2) and (3) of Section (X)-160 of MIC Underground Storage Tank Regulations. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: Approximately 30 gallons of off-spec. diesel was removed and shipped to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108.

Tank Inspection Notes: Two corrosion holes were discovered on the bottom of the tank surface. Five corrosion holes were discovered on the east end of the tank. One corrosion hole was discovered on the west end of the tank.

Piping Notes: Not applicable.

FAA Tank Number: UST 53G (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with shovels and a backhoe on September 30, 1999. The final dimensions of the excavation area were approximately 7 feet wide, 13 feet long, and 5 feet below ground surface (bgs). The top of the tank was approximately 24 inches bgs. The bottom of the tank was approximately 5 feet bgs. Inorganic pit run from a local quarry was used as backfill.

Soil Conditions: Topsoil consisted of sands and gravel. Clay was encountered approximately 5 feet bgs.

Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A heavy fuel product was present on the surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.

Soils Excavated as Required for Tank Removal: Approximately 5 cubic yards of soil were excavated during tank removal operations. 2 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation and disposal (ANN33)

Soils After Tank Removal: Approximately 11 additional cubic yards of fuel-contaminated soil were excavated following tank removal operations. The decision to excavate additional soil was based on field screening results.

Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples (ANN99SS006Q01 through ANN99SS006Q04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil sample (ANN99TS006Q01) was collected for total lead analysis.Remaining soils are above MIC cleanup criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 106 for heating oil storage.

Stockpiles: Petroleum-contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation, treatment, and disposal. Containerized soil was sampled and the analytical results are attached. . Fuel affected soil was sent to

TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN41). A soil recycling certificate is attached. Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33).

Groundwater: Groundwater was encountered approximately 4 feet bgs. Floating product was observed on the surface. Groundwater will be sampled during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 53G (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 20, 1999, at 0930 hours. A copy of the release investigation is attached.

Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 11 cubic yards of potentially contaminated soil was removed and containerized for offsite transportation and disposal.

Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.

Corrective Action: Pending the results of a release investigation.

Hazard Ranking Summary and Score: N/A

Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. 4-Bromofluorobenzene (GRO analysis) surrogate recovery for sample ANN99SS006Q01 was outside of control limits. Surrogate recovery during DRO analysis for samples ANN99SS006Q01, ANN99SS006Q02, and ANN99SS006Q03 was outside of laboratory control limits or not calculated because of required dilution. Surrogate recovery during RRO analysis for samples ANN99SS006Q01, ANN99SS006Q02, and ANN99SS006Q03 was not calculated because of required dilution.

Date: _____

Reviewer: _____

UST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: UST 53H (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

UST Location: Former FAA Living Quarters Area, Building 107.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 **?F** **Average January Temp.:** 35 **?F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: UST 53H was covered with approximately 2-1/2 feet of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Water service lines and overhead power lines are present in the Living Quarters Area but none were encountered during excavation.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: mostly cloudy, 45°F

FAA Tank Number: UST 53H (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 800 gallons

Year Installed: 8/50 **Length:** 10 feet **Diameter:** 46 inches

Wall Construction Type:	XX	**Single Wall**		**Double Wall**					
Construction Material:	XX	**Steel**		**Fiberglass**					
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**	
Other:									

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: Four 2-inch bungs on the top surface of the tank. Bungs were used for vent, fill, feed, and return lines

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: The tank was removed on October 1, 1999, and moved to a designated decontamination area near the former school building foundation and later cut into manageable pieces with an acetylene/oxygen torch and cleaned following (2) and (3) of Section (X)-160 of MIC Underground Storage Tank Regulations. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: Approximately 25 gallons of off-spec. diesel was removed and shipped to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108..

Tank Inspection Notes: Tank was slightly rusted with no visible signs of cracks, leaks, or holes.

Piping Notes: Not applicable.

FAA Tank Number: UST 53H (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with shovels and a backhoe on October 1, 1999. The final dimensions of the excavation area were approximately 6 feet wide, 13 feet long, and 4.5. feet below ground surface (bgs). The top of the tank was approximately 24 inches bgs. The bottom of the tank was approximately 5.5 feet bgs. The excavation was lined with 10 mil poly and backfilled using inorganic pit run from a local quarry.

Soil Conditions: Topsoil consisted of sands and gravel. Clay was encountered at 5 feet bgs.

Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel product sheen was present on the surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.

Soils Excavated as Required for Tank Removal: Approximately 5 cubic yards of soil were excavated during tank removal operations. . 1.5 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation and disposal (ANN33)

Soils After Tank Removal: Approximately 11 additional cubic yards of fuel-contaminated soil were excavated following tank removal operations. The decision to excavate additional soils was based on field screening results.

Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and five confirmation soil samples (including one quality control duplicate) (ANN99SS007Q01 through ANN99SS007Q05) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One sample (ANN99TS007Q01) was collected for total lead analysis.Remaining soils are above MIC cleanup criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 107 for heating oil storage.

Stockpiles: Petroleum contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation, treatment, and disposal. Containerized soil was sampled before shipping; analytical results are attached. Fuel affected soil was

sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN42). A soil recycling certificate is attached. Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33).

Groundwater: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel product sheen was present on the surface. Groundwater samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 53H (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 4, 1999, at 1200 hours. A copy of the release notification is attached.

Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 11 cubic yards of fuel contaminated soil was removed and containerized for offsite transportation and disposal.

Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.

Corrective Action: Pending the results of a release investigation.

Hazard Ranking Summary and Score: N/A

Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. 4-Bromofluorobenzene (GRO analysis) surrogate recovery for samples ANN99SS007Q03 and ANN99SS007Q04 was outside control limits because of matrix interference. Surrogate recovery during DRO analysis for samples ANN99SS007Q01, ANN99SS007Q02, ANN99SS007Q03, ANN99SS007Q04, and ANN99SS007Q05 was outside of laboratory control limits because of matrix interference or not calculated because of required dilution. Surrogate recovery during RRO analysis for samples ANN99SS007Q01, ANN99SS007Q03, ANN99SS007Q04, and ANN99SS007Q05 was not calculated because of required dilution.

11. The field duplicate relative percent difference could not be calculated for anenaphthene (PAHs).

Date: _____

Reviewer: _____

UST DECOMMISSIONING ASSESSMENT

Rev. 2/24

FAA Tank Number: UST 53I (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

UST Location: Former FAA Living Quarters Area, Building 108.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: UST 53I was covered with approximately 24 inches of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Water service lines and overhead power lines are present in the Living Quarters Area but none were encountered during excavation.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: mostly cloudy, 45°F

FAA Tank Number: UST 53I (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 800 gallons

Year Installed: 9/50 **Length:** 10 feet **Diameter:** 46 inches

Wall Construction Type:	XX	**Single Wall**		**Double Wall**					
Construction Material:	XX	**Steel**		**Fiberglass**					
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**	
Other:									

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: Four 2-inch bungs on the top surface of the tank. Bungs were used for vent, fill, feed, and return lines

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: The tank was removed on October 1, 1999, and moved to a designated decontamination area near the former school building foundation and later cut into manageable pieces with an acetylene/oxygen torch and cleaned following (2) and (3) of Section (X)-160 of MIC Underground Storage Tank regulations. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: : Approximately 20 gallons of diesel was removed and shipped to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108. .

Tank Inspection Notes: Two corrosion holes were discovered on the bottom surface of the tank. Six corrosion holes were discovered on the west end of the tank. Four corrosion holes were discovered on the east end of the tank.

Piping Notes: Not applicable.

EXCAVATION

Excavation Notes: The tank was excavated with shovels and a backhoe on October 1, 1999. The final dimensions of the excavation area were approximately 9 feet wide, 16 feet long, and 6 feet below ground surface (bgs). The top of the tank was approximately 24 inches bgs. The bottom of the tank was approximately 6 feet bgs. Inorganic pit run from a local quarry was used for backfill.

Soil Conditions: Topsoil consisted of sands and gravel. Clay was encountered at an approximate depth of 5 feet bgs.

Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel product sheen was present on the surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.

Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards of soil was excavated during tank removal operations. . 8 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation and disposal (ANN33)

Soils After Tank Removal: Approximately 11 additional cubic yards of fuel-contaminated soil was excavated following tank removal operations. The decision to excavate additional soil was based on field screening results.

Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples (ANN99SS008Q01 through ANN99SS008Q04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil sample (ANN99SS008Q01) was collected for total lead analysis.Remaining soils are above MIC cleanup criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 108 for heating oil storage.

Stockpiles: Petroleum-contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation and disposal. Containerized soil was sampled and shipped, analytical results are attached. . Fuel affected soil was sent to TPS

Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN43). A soil recycling certificate is attached. Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33).

Groundwater: Groundwater was encountered approximately 4 feet bgs. A sheen was present on the surface. Groundwater will be sampled during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 53I (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 4, 1999, at 1200 hours. A copy of the release notification is attached.

Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 11 cubic yards of contaminated soil was removed and containerized for offsite transportation and disposal.

Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.

Corrective Action: Pending the results of a release investigation.

Hazard Ranking Summary and Score: N/A

Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. Surrogate recovery during DRO analysis for samples ANN99SS008Q01, ANN99SS008Q02, ANN99SS008Q03, and ANN99SS008Q04 was outside of laboratory control limits because of matrix interference or could not be calculated because of required dilution. Surrogate recovery during RRO analysis for samples ANN99SS008Q01 and ANN99SS008Q04 was not calculated because of required dilution.

Date: _____

Reviewer: _____

UST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: UST 53J (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

UST Location: Former FAA Living Quarters Area, Building 109.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: UST 53J was covered with approximately 12 inches of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve, which is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: An underground water line and electric line were located near Building 109; the water line was dented during excavation but did not result in a loss of water pressure.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: sunny, 50°F

FAA Tank Number: UST 53J (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 800 gallons

Year Installed: unknown **Length:** 10 feet **Diameter:** 45 inches

Wall Construction Type:	XX	**Single Wall**		**Double Wall**				
Construction Material:	XX	**Steel**		**Fiberglass**				
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**
Other:								

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: Three 2-inch bungs on the top surface of the tank used for vent, fill, and feed lines; one 1-inch bung on the top surface of the tank used as a return line; one 24-inch bolted manway flange

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: The tank was removed on September 30, 1999, and moved to a designated decontamination area near the former school building foundation and later cut into manageable pieces with an acetylene/oxygen torch and cleaned following (2) and (3) of Section (X)-160 of MIC Underground Storage Tank regulations. . The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: : Approximately 25 gallons of off-spec. diesel was removed and shipped to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108.

Tank Inspection Notes: Seven corrosion holes were discovered on the south side of the tank. Six corrosion holes were discovered on the east end of the tank. Six corrosion holes were discovered on the west end of the tank.

Piping Notes: Not applicable.

FAA Tank Number: UST 53J (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with shovels and a backhoe on September 30, 1999. The final dimensions of the excavation area were approximately 5.5 feet wide, 13 feet long, and 5 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The excavation was lined with 10 mil poly and backfilled using inorganic pit run from a local quarry.

Soil Conditions: Topsoil consisted of sands and gravel. Hard, blue clay was encountered at 5 feet bgs.

Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel sheen was present on the surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.

Soils Excavated as Required for Tank Removal: Approximately 5 cubic yards of soil were excavated during tank removal operations. 1.5 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation and disposal (ANN33)

Soils After Tank Removal: Approximately 6 additional cubic yards of fuel-contaminated soil was excavated following tank removal operations. Decision to excavate additional soils was based on field screening results.

Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples (ANN99SS009Q01 through ANN99SS009Q04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil sample (ANN99TS008Q01) was collected for total lead analysis.Remaining soils are above MIC cleanup criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 109 for heating oil storage.

Stockpiles: Petroleum-contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for

offsite transportation, treatment, and disposal. Containerized soil was sample before shipping, analytical results are attached. . Fuel affected soil was sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN40). A soil recycling certificate is attached. Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33).

Groundwater: Groundwater was encountered during tank removal operations and had been impacted by leaking/spilled fuel products. Groundwater will be sampled during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 53J (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community was notified on October 1, 1999, at 1530 hours. A copy of the release notification is attached.

Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 10 cubic yards of potentially contaminated soil was removed and containerized for offsite transportation and disposal.

Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.

Corrective Action: Pending the results of a release investigation.

Hazard Ranking Summary and Score: N/A

Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. 4-Bromofluorobenzene (GRO analysis) surrogate recovery for samples ANN99SS009Q02 and ANN99SS009Q03 were outside of laboratory control limits because of matrix interference. Surrogate recovery during DRO analysis for samples ANN99SS009Q01, ANN99SS009Q02, ANN99SS009Q03, and ANN99SS009Q04 was outside laboratory control limits because of matrix interference or not calculated because of required dilution. Surrogate recovery during RRO analysis for samples ANN99SS009Q02 and ANN99SS009Q03 were not calculated because of required dilution.

Date: _____

Reviewer: _____

UST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: UST 54 (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: State of Alaska

UST Location: School Building Foundation, Main Base Area

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from a local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: UST 54 was covered with approximately 18 inches of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve, which is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Underground utilities were not encountered during tank removal operations.

Site Access: The former FAA housing area is accessible by an unsecured gravel road west of Butterfly Avenue.

Climatological Conditions During Assessment: sunny, 50°F

FAA Tank Number: UST 54 (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 2,000 gallons

Year Installed: unknown **Length:** 12 feet **Diameter:** 5 feet

Wall Construction Type:	XX	**Single Wall**		**Double Wall**				
Construction Material:	XX	**Steel**		**Fiberglass**				
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**
Other:								

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: four 2-inch bungs on the top surface of the tank used for vent, fill, return, and supply lines

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: The tank was removed on October 5, 1999, and moved to a designated decontamination area near the former school building foundation and later cut into manageable pieces with an acetylene/oxygen torch and cleaned following (2) and (3) of Section (X)-160 of MIC Underground Storage Tank regulations. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: : Approximately 10 gallons of off-spec. diesel was removed and shipped to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108..

Tank Inspection Notes: Holes were apparent. Water was seeping in faster than it was being pumped out.

Piping Notes: Not applicable.

FAA Tank Number: UST 54 (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with shovels and a backhoe on October 4, 1999. The final dimensions of the excavation area were approximately 10 feet wide, 18 feet long, and 6.5 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The bottom of the tank was approximately 6 feet bgs. Approximately 1630 gallons was pumped from the tank and excavated. Water was treated with Granular Activated Carbon and discharged to MIC sewer.

Soil Conditions: Topsoil consisted of sands and gravel. Hard, blue clay was encountered at 5 feet bgs.

Groundwater Conditions: Groundwater was encountered at an approximate depth of 2 feet bgs. A fuel sheen was present on the surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: The soils present at grade appeared to be impacted by fuel products.

Soils Excavated as Required for Tank Removal: Approximately 15 cubic yards of soil were excavated during tank removal operations.

Soils After Tank Removal: Approximately 18 additional cubic yards of fuel-contaminated soil was excavated following tank removal operations. Decision to excavate additional soils was based on field screening results.

Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples (ANN99SS001B01 through ANN99SS001B04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3.Remaining soils are above MIC cleanup criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to the former School Building for heating oil storage.

Stockpiles: Petroleum- contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation and disposal. Containerized soil was sampled before shipment. Analytical results are attached. Fuel affected soil was sent to TPS

Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN47). A soil recycling certificate is attached

Groundwater: Groundwater was encountered during tank removal operations and has been impacted by leaking/spilled fuel products. Groundwater will be sampled during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 54 (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community was notified on October 5, 1999, at 1530 hours. A copy of the release notification is attached.

Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 10 cubic yards of contaminated soil was removed and containerized for offsite transportation and disposal.

Release Investigation Report: MIC cleanup levels were not reached. A release investigation is scheduled for the summer of 2000.

Corrective Action: Pending the results of a release investigation.

Hazard Ranking Summary and Score: N/A

Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	See comment	See comment	
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?		?	
10. Are the matrix spike relative percent differences within acceptance criteria?		?	
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

The recovery of residual-range organics (RRO) in the blank spike was above the control limits for QC batch S9910132. However, the recovery of the blank spike duplicate was in control. Samples ANN99SS001B01 through ANN99SS001B04 were re-prepped and re-analyzed outside of hold time. Both sets of data are included in this report. The RPD for the blank spike and blank spike duplicate in the re-extraction were above the control limits.

8. 4-Bromofluorobenzene (GRO analysis) surrogate recovery for samples ANN99SS001B01 and ANN99SS001B04 were outside of control limits
9. because of matrix interference. Surrogate recovery during DRO analysis for samples ANN99SS001B01 and ANN99SS001B03 were outside of control limits because of matrix interference. Surrogate recovery during DRO analysis for sample ANN99SS001B02 was too dilute to quantify. Surrogate recovery during RRO analysis for samples ANN99SS001B02 and ANN99SS001B02 (re-extraction) was too dilute to quantify.

Date: _____

Reviewer: _____

UST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: UST 55A (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

UST Location: Former FAA Service Building, Building 314, Main Base Area. When located for removal, tank was associated with Building 240.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: UST SSA was covered with approximately 12 inches of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve, which is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Underground utilities were not encountered during tank removal operations.

Site Access: The former FAA Service Building (Building 314) is accessible by an unsecured gravel road west of Butterfly Avenue.

Climatological Conditions During Assessment: sunny, 50°F

FAA Tank Number: UST 55A (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

TANK INFORMATION

Product Stored: heating oil **Tank Capacity:** 500 gallons

Year Installed: 5/68 **Length:** 6 feet **Diameter:** 44 inches

Wall Construction Type:	XX	**Single Wall**		**Double Wall**					
Construction Material:	XX	**Steel**		**Fiberglass**					
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	XX	**None**	
Other:									

Cathodic Protection:	XX	**No**		**Yes**		**Unknown**
Overfill Protection:	XX	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: Two 2-inch bungs on the top surface of the tank used for vent and fill lines; two 1.5-inch bungs on the top surface of the tank used for supply and return lines; one 1-inch bung on the bottom of the east bulkhead of the tank

Date of Last Integrity Test: unknown **Type of Integrity Test:** N/A

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: None reported.

Tank Cleaning and Disposal: The tank was removed on October 4, 1999, and moved to a designated decontamination area near the former school building foundation and later cut into manageable pieces with an acetylene/oxygen torch and cleaned following (2) and (3) of Section (X)-160 of MIC Underground Storage Tank Regulations. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.

Tank Bottoms Quantity and Disposal: : Approximately 20 gallons of off-spec. diesel was removed and shipped to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108.(ANN32a).

Tank Inspection Notes: No corrosion holes were discovered on the tank. The tank was generally in good condition though slightly rusted. A piece of black plastic was draped over the tank but did not appear that it was placed there for any purpose.

Piping Notes: Not applicable.

FAA Tank Number: UST 55A (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with shovels and a backhoe on October 4, 1999. The final dimensions of the excavation area were approximately 10.5 feet wide, 11 feet long, and 5 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The bottom of the tank was approximately 5 feet bgs. Approximately 100 gallons of water was pumped from the tank. Water was treated with Granular Activated Carbon and discharged to the MIC sewer.

Soil Conditions: Topsoil consisted of sands and gravel. Hard, blue clay was encountered at 5 feet bgs.

Groundwater Conditions: Groundwater was encountered at an approximate depth of 5 foot bgs. A fuel sheen was present on the surface. The groundwater level was observed to rise after tank removal to a level of one foot bgs.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: The soils present at grade appeared to be impacted by fuel products.

Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards of soil were excavated during tank removal operations.

Soils After Tank Removal: Approximately 8 additional cubic yards of fuel-contaminated soil was excavated following tank removal operations. Decision to excavate additional soils was based on field screening results.

Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples (ANN99SS002B01 through ANN99SS002B04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3.

Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to the former FAA Service Area Building (Building 314) for heating oil storage.

Stockpiles: Petroleum- contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation and disposal. Containerized soil was sampled before shipment, analytical results are attached. Fuel affected soil was sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN46). A soil recycling certificate is attached

FAA Tank Number: UST 55A (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

Groundwater: Groundwater was encountered during tank removal operations and has been impacted by leaking/spilled fuel products. Groundwater will be sampled during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 55A (SOW C-3 reference)
ADEC Tank Number: Non Regulated UST
Site and Facility: Annette Island Former FAA Facility
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community was notified on October 5, 1999, at 1530 hours. A copy of the release notification is attached.

Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 8 cubic yards of fuel contaminated soil was removed and containerized for offsite transportation and disposal.

Release Investigation Report: MIC cleanup levels were reached, however, a release investigation will still be performed at this site due to the presence of the fuel sheen observed on the groundwater in the excavation.Because of the high water table at this site, the soil sample analytical results may not be representative of the true extent of fuel contamination at this site.

Corrective Action: N/A

Hazard Ranking Summary and Score: N/A

Corrective Action Plan Summary and Status: N/A

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	See comment	See comment	
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		?	
9. Are the matrix spike percent recoveries within acceptance criteria?		?	
10. Are the matrix spike relative percent differences within acceptance criteria?		?	
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

The recovery of residual-range organics (RRO) in the blank spike was above the control limits for QC batch S9910132. However, the recovery of the blank spike duplicate was in control. Samples ANN99SS002B01 through ANN99SS002B04 were re-prepped and re-analyzed outside of hold time. Both sets of data are included in this report. The RPD for the blank spike and blank spike duplicate in the re-extraction was above the control limits.

8. 4-Bromofluorobenzene (GRO analysis) surrogate recovery for sample ANN99SS002B02 was outside of the control limits.

Surrogate recovery during DRO analysis for samples ANN99SS002B01 and ANN99SS002B02 was outside of the control limits because of matrix interference.

Date: _____

Reviewer: _____

UST DECOMMISSIONING ASSESSMENT

Rev 5/24

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Chevron

UST Location: Main Hangar Area, south side of former Standard Oil Storage and Service Building, Annette Island, Alaska.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with
marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet.
The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: Less than 12 inches of gravel covered UST 76A.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary,
swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve, which is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Metlakatla Power & Light pulled fuses from main power feed at the main hangar. There were 4-inch underground electrical conduits on the hanger's east side.

Site Access: Unsecured gravel road

Climatological Conditions During Assessment: Mostly cloudy, spots of sunshine.

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil Storage and Service Building,
Annette Island, Alaska

TANK INFORMATION

Product Stored: Gasoline/Diesel **Tank Capacity:** approximately 1,000 gallons

Year Installed: unknown **Length:** 144 inches **Diameter:** 45 inches

Wall Construction Type:	X	**Single Wall**		**Double Wall**				
Construction Material:	X	**Steel**		**Fiberglass**				
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	X	**None**
Other:								

Cathodic Protection:	X	**No**		**Yes**		**Unknown**
Overfill Protection:	X	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: Two 1-1/2-inch penetrations, one 4-inch fill.

Date of Last Integrity Test: Unknown **Type of Integrity Test:**

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: No records available.

Tank Cleaning and Disposal: Tank was cut, cleaned, and taken to the FAA scrap metal site at the Metlakatla quarry following (2) and (3) of section (X)-160 of MIC Underground Storage Tank Regulations.

Tank Bottoms Quantity and Disposal: Approximately 25 gallons of used motor oil was removed from the bottom of the tank, it was shipped to Burlington Environment, Inc., 734 South Cecile Street, Seattle, WA 98108 (ANN32b). Results of an oil burn spec performed on a sample of the motor oil is attached.

Tank Inspection Notes: The tank had one leak hole on the bottom near the south bulkhead.

Piping Notes: Tank piping was not encountered during excavation.

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil Storage and Service Building,
Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with a backhoe, front loader, compressor, pumps, chain saw, and shovels on September 25, 1999. The final dimensions of the excavation were approximately 9 feet wide, 16 feet long, and 4.5 feet deep. During excavation, a wooden crib (septic style pit) was encountered at the north wall. While excavating potential hot areas, the wooden crib broke and filled the excavation with water. Approximately 365 gallons of water was pumped from the tank and the excavation, treated with granular activated carbon and discharged to the MIC sewer.

Soil Conditions: Tank sat on layer of blue clay.

Groundwater Conditions: Groundwater was encountered 4 feet below ground surface (bgs).

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/10.6 eV lamp; Industrial Scientific Corporation HMX 271 LEL/02.

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figures 4 and 5. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: Soil was heavily impacted with possible petroleum contamination

Soils Excavated as Required for Tank Removal: Approximately 5 cubic yards were excavated for tank removal.

Soils After Tank Removal: An additional 5 cubic yards of soil was removed based on field screening results.

Soils at Limit of Excavation: Six field samples were analyzed from the limits of excavation with the OVM. Five confirmation soil samples (ANN99SS004H01-ANN99SS004HO5) were collected from the bottom and side walls of the excavation, as shown in Figure 3, for laboratory analysis offsite. Samples ANN99SS004H01-ANN99SS004HO4 were analyzed for gasoline-range organics (GRO)/benzene, toluene, ethylene, xylenes (BTEX), diesel-range organics (DRO), and residual-range organics (RR0), sample ANN99SS004H05 was analyzed for total lead, and sample ANN99SS004HO3 was analyzed for polycyclic aromatic hydrocarbon (PAH), total metals, and VOC.

Soils Beneath Fuel Piping and Dispensers: Not applicable.

FAA Tank Number: UST 76A (SOW C-3 reference)

ADEC Tank Number:

Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil Storage and Service Building,
Annette Island, Alaska

Stockpiles: Approximately 21-24 cubic yards of potentially fuel-affected soil was removed and placed directly into roll-off shipping containers for offsite transportation and disposal. Containerized soil was sampled before shipment. The analytical results are attached. . Fuel affected soil was sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN49). A soil recycling certificate is attached

Groundwater: Groundwater was encountered 4 feet bgs. A fuel sheen was observed. Groundwater samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil Storage and Service Building,
Annette Island, Alaska

SITE CLEANUP LEVEL ESTIMATE (from ADEC Underground Storage Tank Regulations, 18 AAC 78, May 4, 1998)

1.	**Depth to Subsurface Water**		
	<5 feet	**(10)**	10
	5 - 15 feet	**(8)**	
	16 - 25 feet	**(6)**	
	26 - 50 feet	**(4)**	
	>50 feet	**(1)**	
2.	**Mean Annual Precipitation**		
	>40 inches	**(10)**	10
	26 - 40 inches	**(5)**	
	16 - 25 inches	**(3)**	
	≤15 inches	**(1)**	
3.	**Soil Type**		
	Clean, coarse-grained soils	**(10)**	
	Coarse-grained soils with fines	**(8)**	8
	Fine-grained soils (low organic carbon)	**(3)**	
	Fine-grained soils (high organic carbon)	**(1)**	
4.	**Potential Receptors**		
	Public water system within 1,000 feet, or private water system within 500 feet	**(15)**	
	Public/private water system within 1/2 mile	**(12)**	
	Public/private water system within 1 mile	**(8)**	
	No water system within 1 mile	**(4)**	
	Non-potable groundwater	**(1)**	1
5.	**Volume of Contaminated Soil**		
	>500 cubic yards	**(10)**	
	101 - 500 cubic yards	**(8)**	
	26 - 100 cubic yards	**(5)**	
	10 - 25 cubic yards	**(2)**	2
	<10 cubic yards	**(0)**	

Matrix Score 31
Product Stored Gasoline/Diesel
ADEC Site Cleanup Level Estimate in mg/kg 100/200
Field Action Level (75% of ADEC Level) in mg/kg 75/150

	Cleanup Level Estimate in mg/kg			
	Diesel	Gasoline/Unknown		
Matrix Score	**Diesel-Range Petroleum Hydrocarbons**	**Gasoline-Range Petroleum Hydrocarbons**	**Benzene**	**Total BTEX**
Category A >40	**100**	**50**	**0.1**	**10**
Category B 27-40	**200**	**100**	**0.5**	**15**
Category C 21-26	**1,000**	**500**	**0.5**	**50**
Category D <21	**2,000**	**1,000**	**0.5**	**100**

Benzene 0.02 **Ethylbenzene 6** **Toluene 5** **Xylenes (Total) 78**

CH2-OH

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

Approved by: _____

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank and the corrosion hole in the bottom of the tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on September 29, 1999, at 09:00 hours. At copy of the
release notification is attached.

Initial Abatement Actions: The tank was drained, removed, and decommissioned. Approximately 5 cubic yards of soil was containerized andremoved fo

Release Investigation Report: MIC and ADEC cleanup levels were not reached. A release investigation is scheduled for the summer of 2000.

Corrective Action: Pending results of the release investigation report.

Hazard Ranking Summary and Score: Hazard ranking summary is attached. Hazard score = 12.6.

Corrective Action Plan Summary and Status: Pending completion of the release investigation.

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil Storage and Service Building,
Annette Island, Alaska

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)

	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?			?
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?	?		
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. For GRO, 4-Bromofluorobenzene recovery for samples ANN99SS004H02 - ANN99SS004H04 was outside of method recovery limits. For DRO, samples ANN99SS004H01 and ANN99SS004H04 were not calculate because of required dilution. For RRO, sample ANN99SS004H04 surrogate recovery was not calculated because of required dilution.

11. Sample ANN99SS004H03 and it's lead duplicate ANN99SS004H05, RPD = 3.2%

Approved by:

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil Storage and Service Building,
Annette Island, Alaska

Date:
Reviewer:

HAZARD RANKING MODEL SUMMARY AND SCORE*

SUMMARY MATRIX

Ranking Score = MCF x Substance Factor x (Human Target + Environmental Target) = 12.6

Multiple Contaminant Factor (MCF)	=	1
Substance Factor = Toxicity x Quantity x Release	=	2

Human Target	=	Site Access	+	Air Target Population	+	Adjacent Groundwater Use	+	Adjacent Surface-Water Use	=	3.25			

Environmental Target	=	Surface-Water Environments	+	Environmental Recreation Areas	=	2		

OR

Environmental Target = Observed Effects	=	N/A
Environmental Target Score	=	2

Air Target Index	=	Air Exposure 1 Mile	x	Population Within 500 Feet	x	Population Within	=	0.5	Population				

Adjacent Groundwater Use	=	Groundwater Use	x	Groundwater Exposure Index	x	Population Within 1 Mile	=	.35					

* Shannon & Wilson, Inc., and Science Applications International Corporation, Draft Alaska hazard ranking model for the contaminated site database, prepared for ADEC, January 21, 1991.

Approved by:

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil Storage and Service Building,
Annette Island, Alaska

Adjacent Surface-Water Use	=	Surface-Water Use	x	Surface-Water Exposure Index	x	Population Within 1 Mile	=	.4

Approved by: _____

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil Storage and Service Building,
Annette Island, Alaska

MULTIPLE CONTAMINANT FACTOR (MCF) — Score = 1.2

Value	
1.2	Multiple contaminants
1	Single contaminant

TOXICITY — Score = 2

Value	Toxicity
4	Chlorinated solvents, other halogenated hydrocarbons, synthetic chlorinated organic pesticides
3	Metals, gasoline, aviation gasoline, naphtha, non-chlorinated pesticides
2.1	Unknown substances
2	Diesel fuel, jet fuels, kerosene, phenols, or non-chlorinated solvents, crude oil
1	Waste lubricating oils, heavy fuel oils (No. 6 etc.) inorganic acids/bases, tar

QUANTITY — Score = 1

Value	Drums	Spilled Gallons	Cubic Yards or Tons	Surface Area (square feet)
1	<10	<500	<100	<100
2	10-100	500-5,500	100-500	100-10,000
3	100-1,000	5,500-40,000	500-2,000	10,000-1 acre
4	>1,000	>40,000	>2,000	>1 acre

POTENTIAL FOR RELEASE — Score = 1

Value	Release
1	Documented release regardless of quantity
0.5	Containment/management practices that may pose significant threat
0.2	Unknown potential for release
0.1	Documented absence of release

SITE ACCESS — Score = 2

Value	Access
3	School within 500 feet and site access is uncontrolled
2	Access uncontrolled
1	Site is partially secure
0	Hazardous substances are underground, or site is secure

Approved by: _____

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil Storage and Service Building,
Annette Island, Alaska

AIR EXPOSURE — Score = 0.1

Value	
1	Documented release of particulates or gases
0.5	Releases may have occurred, but have not been documented
0.2	Unknown whether wastes are at ground surface, or sites with stockpiles of contaminated soil not known to be completely contained
0.1	No air releases

POPULATION WITHIN 1 MILE — Score = 5

Value	Within One Mile
10	Urban residential (>35,000)
8	Suburban; Cities of 2,000 - 35,000; or industrial/commercial
5	Villages of <2,000; or low density housing or low density industrial/commercial
3	Rural, with some occupied buildings
0	No population

POPULATION WITHIN 500 FEET — Score = 1

Value	
1	Occupied buildings
0.5	No occupied buildings

GROUNDWATER USE (WITHIN 1 MILE) — Score = 0.1

Value	
1	Municipal or other public wells serving >25 individuals
0.8	Community or private wells
0.4	Drinking water supply >1 mile from site, OR no known wells, but possibility exists
0.1	Groundwater not available for drinking water or not used

GROUNDWATER EXPOSURE INDEX — Score = 0.7

Value	
2	Documented contamination of water supply wells >MCL
1.4	Documented contamination of water supply wells <MCL
0.7	Groundwater contamination exists, but no contamination of water supply wells
0.4	Unknown whether groundwater contamination exists
0	Groundwater documented free of contamination, OR low potential for contamination

Approved by: _____

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil Storage and Service Building,
Annette Island, Alaska

SURFACE-WATER USE (WITHIN 1 MILE OF SITE) **Score = 0.2**

Value	
1	Surface water used as drinking water source
0.5	Surface-water use unknown, but likely
0.2	Surface-water use unknown, but unlikely, OR surface water not used

SURFACE-WATER EXPOSURE INDEX **Score = 0.4**

Value	
2	Documented contamination of surface drinking water supply >MCL
1.4	Documented contamination of surface drinking water supply <MCL
0.7	Surface-water contamination exists, but no contamination of surface drinking water supply
0.4	Unknown whether surface-water contamination exists
0	Surface water documented free of contamination, OR low potential for contamination

SURFACE-WATER ENVIRONMENTS (WITHIN 1/4 MILE OF SITE) **Score = 2**

Value	
5	Fresh/marine waters or wetlands present, and evidence of death/stress to fish or wildlife
3	Fresh/marine waters or wetlands present, and evidence of death/stress to plant life
2	Fresh/marine waters or wetlands present, but no evidence of death/stress to fish, wildlife, or plant life
0	No fresh or marine waters or wetlands present

ENVIRONMENTAL/RECREATION AREAS* **Score = 0**

Value	
5	In an Environmental/Recreation area with evidence of death or stress to fish or wildlife
3	In an Environmental/Recreation area with evidence of death or stress to plant life
2	In an Environmental/Recreation area with no evidence of death or stress to fish, wildlife, or plant life
0	Not in an Environmental/Recreation area

OBSERVED ENVIRONMENTAL IMPACTS **Score = 0**

Value	
5	Evidence of death or stress to fish or wildlife
3	Evidence of death or stress to plant life
0	No evidence of death or stress to wildlife or plant life

Note: This factor is scored only if Surface-Water Environments and Environmental/Recreational Areas both score zero

*Environmental/Recreation areas include National/State Parks, Monuments, Refuges, Forests, and Recreation Areas.

Approved by: _____

FAA Tank Number: UST 76A (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

Treated Water Analytical Results

UST DECOMMISSIONING ASSESSMENT

Rev 5/24

FAA Tank Number: UST 76B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

Operator: Chevron

UST Location: Main Hangar Area, west side of former Standard Oil Storage and Service Building, Annette Island, Alaska.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with
marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet.
The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: UST 76B was covered with gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary,
swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve, which is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Metlakatla Power and Light pulled fuses from main power feed at main hangar. There were 4-inch underground electrical conduits on the hangar's east side.

Site Access: Unsecured gravel road

Climatological Conditions During Assessment: Cool and rainy

FAA Tank Number: UST 76B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

TANK INFORMATION

Product Stored: Gasoline **Tank Capacity:** approximately 1,200 gallons

Year Installed: unknown **Length:** 144 inches **Diameter:** 51 inches

Wall Construction Type:	X	**Single Wall**		**Double Wall**					
Construction Material:	X	**Steel**		**Fiberglass**					
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	X	**None**	
Other:									

Cathodic Protection:	X	**No**		**Yes**		**Unknown**
Overfill Protection:	X	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: One 2 inch bung, two 1-1/2-inch bungs, fill and vent. Two 1-inch bungs, feed and return.

Date of Last Integrity Test: Unknown **Type of Integrity Test:**

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: No records available.

Tank Cleaning and Disposal: Tank was cut, cleaned, and taken to the FAA scrap metal site at the Metlakatla quarry following (2) and (3) of section (X)-160 of MIC Underground Storage Tank Regulations.

Tank Bottoms Quantity and Disposal: Approximately 30 gallons of used motor oil was collected from the bottom of the tank and sent to Burlington Environmental, Inc., 734 South Lucile Street, Seattle, WA 98108 for disposal (ANN32b) Results of an oil burn spec. form a sample of the motor oil are attached..

Tank Inspection Notes: The tank had several leak holes on the bottom near the south and north bulkheads, some greater than a half-dollar in size.

Piping Notes: Tank piping was not encountered during excavation.

FAA Tank Number: UST 76B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with a backhoe, front loader, compressor, pumps, chain saw, and shovels on September 23, 1999.

The final dimensions of the excavation were approximately 9.5 feet wide, 16 feet long, and 4 feet deep. Approximately 50 gallons of water was removed from the excavation and treated with granular activated carbon and discharged to the MIC sewer.

Soil Conditions: Tank sat on a layer of blue clay.

Groundwater Conditions: Groundwater was encountered 4 feet below ground surface (bgs). A sheen was observed on the groundwater surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/10.6 eV lamp; Industrial Scientific Corporation HMX 271 LEL/02.

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figures 4 and 5. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: Tank piping and risers had been previously removed by others.

Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards were excavated for tank removal.

Soils After Tank Removal: An additional 3 cubic yards of soil was removed based on field screening results.

Soils at Limit of Excavation: Six field samples were taken from the limits of excavation with the OVM. Six confirmation soil samples (ANN99SS005H01-ANN99SS005HO4, ANN99SS005H06, ANN99SS005H07) were collected from the bottom and side walls of the excavation, as shown in Figure 3, for laboratory analysis offsite. Samples ANN99SS005H01-ANN99SS005HO4 were analyzed for gasoline-range organics (GRO)/benzene, toluene, ethylene, xylenes (BTEX), diesel- range organics (DRO), and residual-range organics (RR0). Sample ANN99SS005H06 was analyzed for total lead, and sample ANN99SS005HO7 was analyzed for polycyclic aromatic hydrocarbon (PAH). Sample ANN99SS0SH03 was analyzed for VOCs and total metals.Remaining soils are above ADEC and MIC cleanup criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable.

Stockpiles: Approximately 3 cubic yards of fuel-affected soil was removed and placed directly into roll-off shipping containers for offsite transportation and disposal. Containerized soil was sampled before shipment, analysis is attached. . Fuel affected soil was sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN35). A soil recycling certificate is attached

FAA Tank Number: UST 76B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

Groundwater: Groundwater was encountered 4 feet bgs. A fuel sheen was observed on the groundwater. Samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 76B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

SITE CLEANUP LEVEL ESTIMATE (from ADEC Underground Storage Tank Regulations, 18 AAC 78, May 4, 1998)

1.	**Depth to Subsurface Water**		
	<5 feet	**(10)**	10
	5 - 15 feet	**(8)**	
	16 - 25 feet	**(6)**	
	26 - 50 feet	**(4)**	
	>50 feet	**(1)**	
2.	**Mean Annual Precipitation**		
	>40 inches	**(10)**	10
	26 - 40 inches	**(5)**	
	16 - 25 inches	**(3)**	
	≤15 inches	**(1)**	
3.	**Soil Type**		
	Clean, coarse-grained soils	**(10)**	
	Coarse-grained soils with fines	**(8)**	8
	Fine-grained soils (low organic carbon)	**(3)**	
	Fine-grained soils (high organic carbon)	**(1)**	
4.	**Potential Receptors**		
	Public water system within 1,000 feet, or private water system within 500 feet	**(15)**	
	Public/private water system within 1/2 mile	**(12)**	
	Public/private water system within 1 mile	**(8)**	
	No water system within 1 mile	**(4)**	
	Non-potable groundwater	**(1)**	1
5.	**Volume of Contaminated Soil**		
	>500 cubic yards	**(10)**	
	101 - 500 cubic yards	**(8)**	
	26 - 100 cubic yards	**(5)**	
	10 - 25 cubic yards	**(2)**	2
	<10 cubic yards	**(0)**	

Matrix Score 31
Product Stored Gasoline
ADEC Site Cleanup Level Estimate in mg/kg 100
Field Action Level (75% of ADEC Level) in mg/kg 75

	Cleanup Level Estimate in mg/kg			
	Diesel	Gasoline/Unknown		
Matrix Score	**Diesel-Range Petroleum Hydrocarbons**	**Gasoline-Range Petroleum Hydrocarbons**	**Benzene**	**Total BTEX**
Category A >40	**100**	**50**	**0.1**	**10**
Category B 27-40	**200**	**100**	**0.5**	**15**
Category C 21-26	**1,000**	**500**	**0.5**	**50**
Category D <21	**2,000**	**1,000**	**0.5**	**100**

Benzene 0.02 **Ethylbenzene 6** **Toluene 5** **Xylenes (Total) 78**

CH2-OH
Revision No. 0

FAA Tank Number: UST 76B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

Approved by: _____

FAA Tank Number: UST 76B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

RELEASE RESPONSE

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank and the corrosion hole in the bottom of the tank.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on September 24, 1999, at 14:20 hours. At copy of the
release notification is attached.

Initial Abatement Actions: Water was drained from the tank and thetank was removed, and decommissioned. Approximately 3 cubic yards of soil was containerized and removed for offsite transportation and disposal.

Release Investigation Report: ADEC and MIC cleanup levels were not reached. A release investigation is scheduled for the summer of 2000.

Corrective Action: Pending results of the release investigation report.

Hazard Ranking Summary and Score: Hazard ranking summary is attached. Hazard score = 12.6.

Corrective Action Plan Summary and Status: Pending completion of the release investigation.

FAA Tank Number: UST 76B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)

	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?			?
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?	?		
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. For EPA 8260, sample ANN99SS005H03 was outside of laboratory control limits. For GRO samples, ANN99SS005H02 and ANN99SS005H04 were outside of method recovery limits. For DRO and RRO, samples ANN99SS005H01-ANN99SS005H04 were not calculate because of required dilution.

9. For EPA 8260; the recoveries and/or RPDs of multiple target compounds and surrogates in the matrix spike and matrix spike duplicate for sample ANN99SS005H03 were outside of control limits. The recoveries and/or RPDs of one or more target compounds in the laboratory control sample and laboratory control sample duplicate were outside of control limits. There were not hits in the samples.

For Metals by EPA 6010/7000 the recoveries and/or RPDs of multiple target compounds in the matrix spike and/or matrix spike duplicate for samples ANN99SS005H3 and ANN99SS006 were outside of control limits. However, the laboratory control sample was within control limits.

Date:
Reviewer:

FAA Tank Number: UST 76B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar Area, Former Standard Oil
Storage and Service Building,
Annette Island, Alaska

HAZARD RANKING MODEL SUMMARY AND SCORE*

SUMMARY MATRIX

Ranking Score = MCF x Substance Factor x (Human Target + Environmental Target) = 12.6

Multiple Contaminant Factor (MCF)	=	1
Substance Factor = Toxicity x Quantity x Release	=	2
Human Target = Site Access + Air Target Population + Adjacent Groundwater Use + Adjacent Surface-Water Use	=	3.25
Environmental Target = Surface-Water Environments + Environmental Recreation Areas	=	2
OR		
Environmental Target = Observed Effects	=	N/A
Environmental Target Score	=	2

Air Target Index	=	Air Exposure 1 Mile	x	Population Within 500 Feet	x	Population Within	=	0.5 Population
Adjacent Groundwater Use	=	Groundwater Use	x	Groundwater Exposure Index	x	Population Within 1 Mile	=	.35
Adjacent Surface-Water Use	=	Surface-Water Use	x	Surface-Water Exposure Index	x	Population Within 1 Mile	=	.4

* Shannon & Wilson, Inc., and Science Applications International Corporation, Draft Alaska hazard ranking model for the contaminated site database,

MULTIPLE CONTAMINANT FACTOR (MCF) — Score = 1.2

Value	
1.2	Multiple contaminants
1	Single contaminant

TOXICITY — Score = 2

Value	Toxicity
4	Chlorinated solvents, other halogenated hydrocarbons, synthetic chlorinated organic pesticides
3	Metals, gasoline, aviation gasoline, naphtha, non-chlorinated pesticides
2.1	Unknown substances
2	Diesel fuel, jet fuels, kerosene, phenols, or non-chlorinated solvents, crude oil
1	Waste lubricating oils, heavy fuel oils (No. 6 etc.) inorganic acids/bases, tar

QUANTITY — Score = 1

Value	Drums	Spilled Gallons	Cubic Yards or Tons	Surface Area (square feet)
1	<10	<500	<100	<100
2	10-100	500-5,500	100-500	100-10,000
3	100-1,000	5,500-40,000	500-2,000	10,000-1 acre
4	>1,000	>40,000	>2,000	>1 acre

POTENTIAL FOR RELEASE — Score = 1

Value	Release
1	Documented release regardless of quantity
0.5	Containment/management practices that may pose significant threat
0.2	Unknown potential for release
0.1	Documented absence of release

SITE ACCESS — Score = 2

Value	Access
3	School within 500 feet and site access is uncontrolled
2	Access uncontrolled
1	Site is partially secure
0	Hazardous substances are underground, or site is secure

AIR EXPOSURE — Score = 0.1

Value	
1	Documented release of particulates or gases
0.5	Releases may have occurred, but have not been documented
0.2	Unknown whether wastes are at ground surface, or sites with stockpiles of contaminated soil not known to be completely contained
0.1	No air releases

POPULATION WITHIN 1 MILE — Score = 5

Value	Within One Mile
10	Urban residential (>35,000)
8	Suburban; Cities of 2,000 - 35,000; or industrial/commercial
5	Villages of <2,000; or low density housing or low density industrial/commercial
3	Rural, with some occupied buildings
0	No population

POPULATION WITHIN 500 FEET — Score = 1

Value	
1	Occupied buildings
0.5	No occupied buildings

GROUNDWATER USE (WITHIN 1 MILE) — Score = 0.1

Value	
1	Municipal or other public wells serving >25 individuals
0.8	Community or private wells
0.4	Drinking water supply >1 mile from site, OR no known wells, but possibility exists
0.1	Groundwater not available for drinking water or not used

GROUNDWATER EXPOSURE INDEX — Score = 0.7

Value	
2	Documented contamination of water supply wells >MCL
1.4	Documented contamination of water supply wells <MCL
0.7	Groundwater contamination exists, but no contamination of water supply wells
0.4	Unknown whether groundwater contamination exists
0	Groundwater documented free of contamination, OR low potential for contamination

SURFACE-WATER USE (WITHIN 1 MILE OF SITE) **Score = 0.2**

Value	
1	Surface water used as drinking water source
0.5	Surface-water use unknown, but likely
0.2	Surface-water use unknown, but unlikely, OR surface water not used

SURFACE-WATER EXPOSURE INDEX **Score = 0.4**

Value	
2	Documented contamination of surface drinking water supply >MCL
1.4	Documented contamination of surface drinking water supply <MCL
0.7	Surface-water contamination exists, but no contamination of surface drinking water supply
0.4	Unknown whether surface-water contamination exists
0	Surface water documented free of contamination, OR low potential for contamination

SURFACE-WATER ENVIRONMENTS (WITHIN 1/4 MILE OF SITE) **Score = 2**

Value	
5	Fresh/marine waters or wetlands present, and evidence of death/stress to fish or wildlife
3	Fresh/marine waters or wetlands present, and evidence of death/stress to plant life
2	Fresh/marine waters or wetlands present, but no evidence of death/stress to fish, wildlife, or plant life
0	No fresh or marine waters or wetlands present

ENVIRONMENTAL/RECREATION AREAS* **Score = 0**

Value	
5	In an Environmental/Recreation area with evidence of death or stress to fish or wildlife
3	In an Environmental/Recreation area with evidence of death or stress to plant life
2	In an Environmental/Recreation area with no evidence of death or stress to fish, wildlife, or plant life
0	Not in an Environmental/Recreation area

OBSERVED ENVIRONMENTAL IMPACTS **Score = 0**

Value	
5	Evidence of death or stress to fish or wildlife
3	Evidence of death or stress to plant life
0	No evidence of death or stress to wildlife or plant life

Note: This factor is scored only if Surface-Water Environments and Environmental/Recreational Areas both score zero

*Environmental/Recreation areas include National/State Parks, Monuments, Refuges, Forests, and Recreation Areas.

UST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: UST 78B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar, Bldg. 608, Annette Island, Alaska

Property Owner: Department of Interior, BIA
P.O. Box 25520
Juneau, AK 99802

Tank Owner/Operator: Federal Aviation Administration
222 West Seventh Avenue, #14
Anchorage, Alaska 99513-7587

UST Location: Main Hangar Area, former Air Traffic Control Tower, Building 608, Annette Island, Alaska.

Legal Description: Section 5, T078S, R092E, Copper River Meridian
Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude

Decommissioning Assessment Supervisor: Dave Hodgdon, CH2-OH

Witnesses: Matt Flynn, CH2-OH, UST #AK507
(Qualified individual per 18 AAC 78.995[87])
Peter Henderson, CH2-OH
Melvin Bryant, CH2-OH

SITE DESCRIPTION AND CLIMATE

Average Annual Precipitation: 115 **inches** **Average July Temp.:** 44 ?**F** **Average January Temp.:** 35 ?**F**

Estimated Depth to Groundwater: <5 **feet**

Type of Backfill (unified class.): Inorganic pit run from the local quarry.

Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level.

Surface Cover: UST 78B was covered with approximately 12 inches of gravel.

Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine.

Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve, which is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site.

Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences.

Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility.

Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: None encountered during tank removal.

Site Access: Unsecured gravel road

Climatological Conditions During Assessment: Overcast

FAA Tank Number: UST 78B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar, Bldg. 608, Annette Island, Alaska

TANK INFORMATION

Product Stored: Gas/Diesel **Tank Capacity:** approximately 580 gallons

Year Installed: 8/42 **Length:** 62 inches **Diameter:** 53 inches

Wall Construction Type:	X	**Single Wall**		**Double Wall**					
Construction Material:	X	**Steel**		**Fiberglass**					
Protective Outer Coating:		**Asphalt**		**Resin**		**Fiberglass**	X	**None**	

Other:

Cathodic Protection:	X	**No**		**Yes**		**Unknown**
Overfill Protection:	X	**No**		**Yes**		**Unknown**

Number and Size of Tank Penetrations: Two 1-1/2-inch bungs, fill and vent. Two 1-inch bungs, feed and return.

Date of Last Integrity Test: Unknown **Type of Integrity Test:**

Historical Leaks or Inventory Discrepancy: None reported.

Review of Inventory and Repair Records: No records available.

Tank Cleaning and Disposal: Tank was cut, cleaned, and taken to the FAA scrap metal site at the Metlakatla quarry following procedures recommended in (2) & (3) of section (X)-160 of MIC Underground Storage Tank Regulation.

Tank Bottoms Quantity and Disposal: Approximately 15 gallons off spec. diesel was collected from tank bottom and shipped to Burlington Environmental, Inc., 734 South Lucile St, Seattle, WA 98108 (ANN32a)

Tank Inspection Notes: The tank had leaks along the north where fuel flowed toward the concrete footing of Building 608.

Piping Notes: Tank piping was not encountered during excavation.

FAA Tank Number: UST 78B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar, Bldg. 608, Annette Island, Alaska

EXCAVATION

Excavation Notes: The tank was excavated with a backhoe and shovels on September 24, 1999. The final dimensions of the excavation were approximately 11 feet wide, 13 feet long, and 5 ½ feet deep. Approximately 50 gallons of water was pumped from the tank. The water was treated by granular activated carbon and discharged to the MIC sewer.

Soil Conditions: The tank sat on a layer of hard blue-clay.

Groundwater Conditions: Groundwater was encountered 4 feet below ground surface (bgs).

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

ENVIRONMENTAL SCREENING

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/10.6 eV lamp; Industrial Scientific Corporation HMX 271 LEL/02.

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figures 4 and 5. A summary of analytical results is attached.

Summary of Results:

Soils Near Tank Penetrations: OVM readings at ground surface were 12 parts per million (ppm)

Soils Excavated as Required for Tank Removal: Approximately8 cubic yards were excavated for tank removal.

Soils After Tank Removal: An additional 13 cubic yards of soil was removed based on field screening results.

Soils at Limit of Excavation: Six samples were analyzed from the limits of excavation with the OVM. Six confirmation soil samples (ANN99SS007H01-ANN99SS007HO6) were collected from the bottom and side walls of the excavation, as shown in Figure 3, for laboratory analysis offsite. The confirmation samples (ANN99SS007H01-ANN99SS007H06) were analyzed for gasoline-range organics (GRO)/benzene, toluene, ethylene, xylenes (BTEX), diesel- range organics (DRO), and residual-range organics (RR0), and sample ANN99SS007HO5 was analyzed for polycyclic aromatic hydrocarbon (PAH) and total lead.Remaining siols are above ADEC and MIC cleanup criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable.

Stockpiles: Approximately 13 cubic yards of fuel-affected soil was removed and placed directly into roll-off shipping containers for offsite Transportation, treatment, and disposal. Containerized soil was sampled before shipping, analytical results are attached. . Fuel affected soil was sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN36). A soil recycling certificate is attached

Groundwater: Groundwater was encountered 4 feet bgs. A fuel sheen was observed. Samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 78B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility Main Hangar, Bldg. 608, Annette Island, Alaska

RELEASE RESPONSE

Release: Tank leaks are suspected as cause of the release.

Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on September 27, 1999, at 14:50 hours. At copy of the release notification is attached.

Initial Abatement Actions: The tank was drained, removed, and decommissioned. Approximately 13 cubic yards of soil was containerized and removed for offsite transportation and disposal.

Release Investigation Report: ADEC and MIC cleanup levels were not reached. A release investigation is scheduled for the summer of 2000.

Corrective Action: Pending results of the release investigation report.

Hazard Ranking Summary and Score: Hazard ranking summary is attached. Hazard score = 12.6.

Corrective Action Plan Summary and Status: Pending completion of the release investigation.

FAA Tank Number: UST 78B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar, Bldg. 608, Annette Island, Alaska

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?			?
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?	?		
9. Are the matrix spike percent recoveries within acceptance criteria?	?		
10. Are the matrix spike relative percent differences within acceptance criteria?	?		
11. Are the field duplicate relative percent differences less than 50 percent?			?

Comments:

8. For DRO, surrogate recovery for samples ANN99SS007H05 and ANN99SS007H06 were not calculated because of required dilution. For RRO, surrogate recovery for samples ANN99SS007H001, ANN99SS007H02, and ANN99SS007H06 was not calculated because of required dilution.

11. For samples ANN99SS007H03 and ANN99SS007H06, RPD for DRO = 95% and RRO = 90%.

Date:
Reviewer:

HAZARD RANKING MODEL SUMMARY AND SCORE*

SUMMARY MATRIX

Ranking Score = MCF x Substance Factor x (Human Target + Environmental Target) = 12.6

Multiple Contaminant Factor (MCF)	=	1
Substance Factor = Toxicity x Quantity x Release	=	2

Human Target	=	Site Access	+	Air Target Population	+	Adjacent Groundwater Use	+	Adjacent Surface-Water Use	= 3.25

Environmental Target	=	Surface-Water Environments	+	Environmental Recreation Areas	= 2

OR

Environmental Target = Observed Effects	=	N/A
Environmental Target Score	=	2

Air Target Index	=	Air Exposure 1 Mile	x	Population Within 500 Feet	x	Population Within	=	0.5	Population

Adjacent Groundwater Use	=	Groundwater Use	x	Groundwater Exposure Index	x	Population Within 1 Mile	=	.35

Adjacent Surface-Water Use	=	Surface-Water Use	x	Surface-Water Exposure Index	x	Population Within 1 Mile	=	.4

MULTIPLE CONTAMINANT FACTOR (MCF) — Score = 1.2

Value	
1.2	Multiple contaminants
1	Single contaminant

TOXICITY — Score = 2

Value	Toxicity
4	Chlorinated solvents, other halogenated hydrocarbons, synthetic chlorinated organic pesticides
3	Metals, gasoline, aviation gasoline, naphtha, non-chlorinated pesticides
2.1	Unknown substances
2	Diesel fuel, jet fuels, kerosene, phenols, or non-chlorinated solvents, crude oil
1	Waste lubricating oils, heavy fuel oils (No. 6 etc.) inorganic acids/bases, tar

QUANTITY — Score = 1

Value	Drums	Spilled Gallons	Cubic Yards or Tons	Surface Area (square feet)
1	<10	<500	<100	<100
2	10-100	500-5,500	100-500	100-10,000
3	100-1,000	5,500-40,000	500-2,000	10,000-1 acre
4	>1,000	>40,000	>2,000	>1 acre

POTENTIAL FOR RELEASE — Score = 1

Value	Release
1	Documented release regardless of quantity
0.5	Containment/management practices that may pose significant threat
0.2	Unknown potential for release
0.1	Documented absence of release

SITE ACCESS — Score = 2

Value	Access
3	School within 500 feet and site access is uncontrolled
2	Access uncontrolled
1	Site is partially secure
0	Hazardous substances are underground, or site is secure

* Shannon & Wilson, Inc., and Science Applications International Corporation, Draft Alaska hazard ranking model for the contaminated site database, prepared for ADEC, January 21, 1991.

AIR EXPOSURE — Score = 0.1

Value	
1	Documented release of particulates or gases
0.5	Releases may have occurred, but have not been documented
0.2	Unknown whether wastes are at ground surface, or sites with stockpiles of contaminated soil not known to be completely contained
0.1	No air releases

POPULATION WITHIN 1 MILE — Score = 5

Value	Within One Mile
10	Urban residential (>35,000)
8	Suburban; Cities of 2,000 - 35,000; or industrial/commercial
5	Villages of <2,000; or low density housing or low density industrial/commercial
3	Rural, with some occupied buildings
0	No population

POPULATION WITHIN 500 FEET — Score = 1

Value	
1	Occupied buildings
0.5	No occupied buildings

GROUNDWATER USE (WITHIN 1 MILE) — Score = 0.1

Value	
1	Municipal or other public wells serving >25 individuals
0.8	Community or private wells
0.4	Drinking water supply >1 mile from site, OR no known wells, but possibility exists
0.1	Groundwater not available for drinking water or not used

GROUNDWATER EXPOSURE INDEX — Score = 0.7

Value	
2	Documented contamination of water supply wells >MCL
1.4	Documented contamination of water supply wells <MCL
0.7	Groundwater contamination exists, but no contamination of water supply wells
0.4	Unknown whether groundwater contamination exists
0	Groundwater documented free of contamination, OR low potential for contamination

SURFACE-WATER USE (WITHIN 1 MILE OF SITE) **Score = 0.2**

Value	
1	Surface water used as drinking water source
0.5	Surface-water use unknown, but likely
0.2	Surface-water use unknown, but unlikely, OR surface water not used

SURFACE-WATER EXPOSURE INDEX **Score = 0.4**

Value	
2	Documented contamination of surface drinking water supply >MCL
1.4	Documented contamination of surface drinking water supply <MCL
0.7	Surface-water contamination exists, but no contamination of surface drinking water supply
0.4	Unknown whether surface-water contamination exists
0	Surface water documented free of contamination, OR low potential for contamination

SURFACE-WATER ENVIRONMENTS (WITHIN 1/4 MILE OF SITE) **Score = 2**

Value	
5	Fresh/marine waters or wetlands present, and evidence of death/stress to fish or wildlife
3	Fresh/marine waters or wetlands present, and evidence of death/stress to plant life
2	Fresh/marine waters or wetlands present, but no evidence of death/stress to fish, wildlife, or plant life
0	No fresh or marine waters or wetlands present

ENVIRONMENTAL/RECREATION AREAS* **Score = 0**

Value	
5	In an Environmental/Recreation area with evidence of death or stress to fish or wildlife
3	In an Environmental/Recreation area with evidence of death or stress to plant life
2	In an Environmental/Recreation area with no evidence of death or stress to fish, wildlife, or plant life
0	Not in an Environmental/Recreation area

OBSERVED ENVIRONMENTAL IMPACTS **Score = 0**

Value	
5	Evidence of death or stress to fish or wildlife
3	Evidence of death or stress to plant life
0	No evidence of death or stress to wildlife or plant life

Note: This factor is scored only if Surface-Water Environments and Environmental/Recreational Areas both score zero.

*Environmental/Recreation areas include National/State Parks, Monuments, Refuges, Forests, and Recreation Areas.

FAA Tank Number: UST 78B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar, Bldg. 608, Annette Island, Alaska

Photograph 2-7. Tank 78B. Top of UST 78B uncovered. Facing north.

Photograph 2-13. Tank 78B. UST 78B out of excavation, showing water under UST.

Figure 4
78B Photographic Log
UST Decommissioning Assessment
Main Hangar, Building 608
Annette Island Former FAA Facility, Alaska

FAA Tank Number: UST 78B (SOW C-3 reference)
ADEC Tank Number:
Site and Facility: Annette Island former FAA Facility
Main Hangar, Bldg. 608, Annette Island, Alaska

Photograph 2-19. Tank 78B. UST 78B at Building 608. West bulkhead, facing east.

Photograph 2-21. Tank 78B. Removing contaminated soils at Building 608. Facing east.

Figure 5
78B Photographic Log
UST Decommissioning Assessment
Main Hangar, Building 608
Annette Island Former FAA Facility, Alaska